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Curriculum Vitae

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Objective: To offer IT-training and consulting-services.

Qualification highlights:

- Microsoft-Certified-Trainer since 1998, continual training-experience in the Microsoft, Linux and Embedded-Linux world.
- Applicant, inventor and co-owner of a leading-edge measurement-data-acquisition and storage technology-patent for large chemical plants.
- Consulting specialist in designing and optimising high-performance and failsafe database-environments for SharePoint and ERP systems.
- PowerShell specialist since 2005 specialising in problem-solving- and deployment-solutions including SQL-Server-, SharePoint-, BizTalk-, ActiveDirectory-, Windows-Azure-, Microsoft-365-, WPF-, Windows-Deployment-and-Assessment-Kit-, Desktop-Office-, WMI-solutions scripted and tested solely in PowerShell as well as training of all PowerShell-courses as a Microsoft Certified Trainer.

Training- Experience

MCT-Certification ([List of Trainings](#))

since
1998

Windows NT and Office-teachings

1998

IT-Training in Windows, Word, und standard-applications at the VHS
Darmstadt/Dieburg

1994-1997

**Consulting-
Experience**

Presentations in German and English as well as coaching regarding expert knowledge and general introductions and guidance of groups of developers and administrators in solving business-critical project-development problems (including smooth introduction of new technologies/design-structures).

since
1998

- The spectrum of guidance-topics comprised for example:
 - [MSF/MOF](#) based working-group-design in planning and implementing large Active-Directory-Farms.
 - [MSF/MOF](#) based working-group-design in planning and implementation of security-solutions for large-scale enterprise-networks.
- The spectrum of hardware-specific topics comprised for example:
 - Conceptual design of fail-safe enterprise-networks for/in group-work with enterprise- administrators, as well as the following implementation/installation.
 - Attendance of and introduction to simple Windows measurement-data-acquisition-stations for inexperienced and well experienced audiences (crash-/extension courses).
 - Composition/Attendance of server-systems/database/measurement-data management-systems ([SCADA](#)) for operating large chemical plants.
 - Composition of network-, web-server-, firewall-infrastructures.
- The spectrum of software-specific topics comprised for example:
 - Windows- and Linux-based development in C/C++, [C++/CLI](#) as well as [C#/VB.NET](#) for the [.NET-Frameworks](#) 1.1-[4.5](#) (Windows only).
 - Database-programming in Oracle/Informix/MySQL as well as MS-SQL-Server 2000 to [2019](#) (new) in C/C++, [C++/CLI](#) as well as [C#/VB.NET](#).
 - Database-administration for MS-SQL-Server 2000 to [2019](#) (with extensive practical in field of medical practices).
 - [Microsoft BizTalk 2006R2 to 2016 solutions.](#)
 - [Microsoft SQL Server 2000 to 2019 Reporting Services solutions.](#)
 - [Microsoft Analysis Server 2005 to 2019 solutions including Data-Mining \(nowadays also known as Machine-Learning\).](#)
 - [Microsoft PowerPivot Server 2010 to 2019 solutions \(i.e., Analysis-Services integrated into SharePoint\).](#)
 - PowerBI: Server, Desktop, Mobile, Excel-Integrated including [70-778](#) and [70-779](#) certifications.
 - [SharePoint 2003 to 2019 Webpart-programming as well as administration and Performance-optimisation.](#)
 - [BizTalk 2006-2020 programming/administration.](#)

- **Web-Service-Software-Factory and Windows Communication Foundation programming.**
- **Azure-Migration of existing infrastructures including modern Security (Advanced Threat Protection, Privileged Identity Management, Managed Service Instances, Azure AD B2C, Azure AD B2B. ...)**
- Modern forms of measurement-data- analysis.
- Implementation of Microsoft Windows/Linux based networks.
- Teachings in Office-VBA-programming as well as professional handling of self-updating calculations in Winword-documents-format-templates- and directory-management.
- Windows- and Linux-based inter-process-communication.
- Windows (95 to 10), as well as. Embedded-Linux and Network-Administration-courses.

Project- Experience	<p>Planning of Data-Consolidation and M365-Migration/Connection to Exchange-Online for a Banking-System-Provider to</p> <ul style="list-style-type: none"> • Replace Notes/Domino, • Implementation and Connection of PowerShell-Web-Services, • Containerising the Solution. 	2023- today
	<p>Planning and Implementation of Data-Consolidation for a Data-Mart-System consisting of SQL-Databases and Excel-Fileshares into a high-performance, reportable OLAP-System for a Pharma-Company.</p>	2023
	<p>Architectural planning, organisation of Tech-Reviews and performing critical implementations for one of the big, global HR-companies regarding</p> <ul style="list-style-type: none"> • Feature-implementation for the internal HR-Management-System. • New AzureAD-Proxy-Services. • Redesign of the Role&Permission-concept. • Replacement of PingFederate. 	2022-2023
	<p>Planning, Extension and Migration of an existing DataWare-House- infrastructure to Microsoft Azure with emphasis on</p> <ul style="list-style-type: none"> • Azure AD P2 Advanced Threat Protection (i.e., of a hybrid Artificial Intelligence, continually probing/investigating the target-system. „Hybrid“ means, that MS-hackers do train the AI actively) & Privileged Identity Management (←Zero Trust Environments). • Estimating the costs for Azure Synapse, Azure Advanced Data Explorer, as well as the alternative CluedIn. • Accounting for scalability. • Accounting for administration-effort. • Migration of an existing Master-Data-Services-solution. • Migration of an existing Reporting- solution. • CI/CD-design based upon DevOps. 	2021

Migration On Premise Infrastructure to Microsoft Azure & Microsoft365/Office365 including

2020

- Azure AD P2 Advanced Threat Protection (i.e., a Hybrid Artificial Intelligence continually fending off security attacks)
- Implementing a Permission-Infrastructure
- Implementing a Certificate-Infrastructure
- Privileged Identity-Management (Zero-Trust Environment with ephemeral Admin-privileges)
- SharePoint to SharePoint-online Migration of
 - Content-Databases
 - Business-Data-Catalogs
 - Product-Catalogs
 - Managed Metadata
- Team Foundation-Server to DevOps Migration.

Writing, Testing, Implementing, and Administering an AD-CA-solution, capable of reissuing VPN-certificates despite of a security-software blocking the access of the Standard-Certification-Authority-service for a large Chemical Company. Including:

2020

- Analysing, why the Standard-Certification-Authority-service was not able to renew the VPN-certificates of Laptop-Users dialling in on a nonregular basis, often missing the time-windows for manual renewal.
- Development.: A Windows-Service running with the appropriate Manged Service accounts capable of performing the renewal.:
 1. Automatically,
 2. In the Background,
 3. Reliably,
 4. With multi-layered CAs,
 5. Despite of the blocking nature of the security-software.
- Test-Management for all Types of Clients.
- Release/Deployment-Management automatised using GPO-Deployment (robust without SCCM).
- Test-Management from clean Laptops to Renewals, De-/Re-installations even after manual removals or removals by the security-software.

Migration of Lotus-Domino-Workflows into SharePoint-Online for a large car rental company:

2019

- Analysis of existing workflows.
- Implementing a Permission-Infrastructure.
- Implementing the Domino-Workflows with Microsoft Flow.
- Testing the Microsoft Flow Workflows.

Architecture and Implementation of an HR–web-service–infrastructure within a BizTalk-Farm at a globally active health-insurance company in Luxemburg. Including:

2018-2019

- Creation and Management of BPMN-2.0-conformant Business-

Process-Plans for Task-Synchronisation between an end-customer-Portal, a document-management-solution and a Health-Insurance-ERP-solution.

- Development.
- Release/Deployment-Management.
- Test-Management of all Middleware-Processes in [Team-Foundation-Server](#) 2017.
- Reporting of all Middleware- Processes using [Team-Foundation-Server](#) 2017 automatised via PowerShell-Workflows.

Planning and Implementing a BI-Landscape fit for Analysing and Planning utilisation of Server-Farm-Infrastructure at Smaser AG: **2018-2020**

- Planning and Deployment of an SSAS-PowerPivot- as well as SSRS/PowerBI-Reportserver-Infrastructure.
- Development of Reports.
- Training of Skills needed to author Reports in a self-service-manner.
- Securing Cloud access using Privileged Identity-Management (Zero-Trust Environment with ephemeral Admin-privileges) and Advanced Threat Protection (i.e., a Hybrid Artificial Intelligence continually fending off security attacks)
- Migrating the PowerBI-Reportserver-Infrastructure Microsoft365/Office365

Development of a measurement-procedure for passenger-car-Hydrogen-Gas-stations in collaboration with Technical University of Darmstadt und der Esters Electronics GmbH: **2017-**

- Research and construction of stable measurement-functionals for sensor-data with Signal-Noise-ratios $\ll 1$ using Mathematica 11.1.
- Simplification and redesign des process in C++ in order to run on a signal-processor-platform.

Using the PlantScope-Compressions-Patents „[DE 10021282 B4](#)“, „[DE 10021286 B4](#)“ (German), „[EP 1301993](#)“ (European) and „[United States Patent #6,839,003](#)“ for the analysis of production-data at Clariant and InfraServ on the Industry-Park Frankfurt-Hoechst for the support-contactor ATEG/Eschborn in order to establish a reporting of the batch-protocols and the alert-creation. **2017**

- The Consulting/Implementation did comprise

- Calculation of von Action-Functionals, like integrals of current-flows and spent energies, directly using the data compressed by a factor 100, i.e., without prior decompression,
- Generating high-dimensional measurement-space alert-zones (meaning that not just the measured values themselves, but compressed-data relations of measured values exceeding thresholds generate the alerts), utilising SSAS-Cubes and DataMining-Models for the Result-Report-Management.

Complete GO-Live-Redesign of a BizTalk-Farm at a globally active health-insurance company in Luxemburg. Including:	2015-
<ul style="list-style-type: none"> • Creation and Management of BPMN-2.0-conformant Business-Process-Plans for Health-Insurance-Policy-Management, Document-Management and Interconnectivity with Banks. • Revision of existing Process-Implementations and Implementation of new ones in BizTalk-2013R2 (Microsoft-Middleware). • Release/Deployment-Management. • Test-Management for all Middleware-Processes in Team-Foundation-Server 2017 (Policy-Investigation, Document-Management, Payments, ...). • Report-Programming based on SharePoint 2016 built into Team-Foundation-Server 2017. • Implementing an ETL-logic for importing and cleansing of data-tables of external contractors using SQL Server Integration Services (SSIS) and PowerShell. 	
Application of a Patent for Multi-Layer-Thermo-Sensors.	2014
Implementation of a SharePoint-2013-Enterprise Farm for NETWORK PEOPLE AG (https://networkpeople.de) including BI-Dashboards using SQL-Server-Reporting-Services , SQL-Analysis Server , SQL-Server-Power-Pivot and Data-Ware-Housing with SQL-Server-Integration-Services .	2014
Extension of a WCF-host for querying coolant-compressor-modules from native, non-COM DLLs to a Caching-System, reducing the loading-times from 15 minutes to 6.5 seconds for a large refrigeration-manufacturer at intera GmbH .	2014
<ul style="list-style-type: none"> • Design of SQL-Analysis Server/SSAS-Cubes for the performance-data-Report-Management fitting Web-performance needs. 	
Implementation of a WCF-host for querying coolant-compressor-modules from native, non-COM DLLs for a large refrigeration-manufacturer at intera GmbH .	2013
Implementation of a WCF-host for querying coolant-compressor-modules from native, non-COM DLLs for a large refrigeration-manufacturer at intera GmbH .	2013
Implementation of a SharePoint-2013-Managed-Metadata-Service-Taxonomy-System for an insolvency-firm.	2013
Securing an ASP.NET Web-Platform for the international Catalyst-Metal Recycler & Dealer Duesmann & Hensel Recycling GmbH .	2013
Provision and Troubleshooting of SharePoint-Farms for Team-Workflowing	2013

for several liquidator-offices.

Conceptual Design, Documentation, Coordination and Implementation of the encryption of a SharePoint 2010-Documentation-Farm via [Transparent Data Encryption](#) for Bayer AG/Leverkusen. **2013**

Maintenance of a SharePoint 2010- Documentation-Farm and implementation of a Wiki/Support-Infrastructure for a local energy-, gas-, and water-supplier including the accompanying reporting using [SQL-Server-Reporting-Services](#). **2011-2013**

Conceptual design and implementation of the accounting- and reporting-environment of a large aircraft-fuel-provider. **since 2010**

- The feature-spectrum comprised for example
 - Conceptual design and implementation reports based upon [Reporting Server 2005/2008 R2/2014](#) as well as [SQL-Server-Analysis-Services 2014](#),
 - Design of a failsafe infrastructure based upon two independent hardware-sites,
 - Team-redesign of available functionality in the accounting-system.

- The feature-spectrum comprised for example
 - Conceptual design and implementation reports based upon [Reporting Server 2005/2008 R2/2014](#) as well as [SQL-Server-Analysis-Services 2014](#),
 - Design of a failsafe infrastructure based upon two independent hardware-sites,
 - Team-redesign of available functionality in the accounting-system.

Conceptual design and implementation of a SharePoint 2010 Farm for a local energy-, gas-, and water-supplier. **2010**

Conceptual design, planning, management of the development-department and implementation of a data-acquisition-interface for an autonomic measurement-data-acquisition-system for Embedded-Controller-Systems [GDR 14xy](#). **2010-2013**

- The feature-spectrum comprised for example
 - Design of a data-acquisition-interface for a [Datacommunication / Datalogger-System](#) of [Esters Elektronik GmbH](#),
 - Design-requirement: To load the data at least 10-times faster than an existing data-acquisition-system,
 - Realisation of the interface bases upon [C++/Boost C++/DMA](#) utilising a strong [Barton-Nackman](#) design, being free of virtual function-calls (except for the Boost-library and Windows itself,

of course),

- Result: 600-fold performance-gain with respect to the .Net based existing data-acquisition-system's performance.

Conceptual design and development of a Portal Software for a load-carrying-equipment machine-manufacturer at Frankfurt Airport based upon SharePoint 2007.

2008-2009

- The feature-spectrum comprised for example
 - Conceptual design and planning of the portal's requirements
 - Installation, implementation and configuration of SharePoint 2007
 - Recording of specific requirements
 - Development and debugging of specific requirements into the Webparts
 - Implementation of Webparts in the portal-environment
 - customization and individualization of the Webparts
 - Products: Windows Server 2003, SharePoint MS SQL Server, .Net 3.0 u. 3.5.

Conceptual design and development of an active Wiki-Site-Structure in a SharePoint 2007 environment.

2008-2009

- The feature-spectrum comprised for example
 - Conceptual design and planning of the data-link-structure based upon the capability of SharePoint-Webparts (in contrast to ASP.NET-Webparts) to be connected across page-boundaries
 - Maintenance and customization of created Sites with active Wiki-Site-Structure via sole use of SharePoint-Designer onboard-tools
 - Diagnosis and resolution of several SharePoint-Designer-implementation-specific problems
 - Implementation of Webparts in the portal-environment solving authentication-problems
 - Products: Windows Server 2003, SharePoint Server 2007, MS SQL Server 2005, Visual Studio 2008, .Net 3.5.

Conceptual design and development of an internationalised contract-sales-platform incl. a web-portal for a large price-search-engine-operator in the energy and telecommunications sector (<http://verivox.de>).

2008

- The feature-spectrum comprised for example
 - implementation of a demo-version based upon [Biztalk 2006/SharePoint 2007](#) with [Business-Data-Catalog](#)- and [Workflow-Foundation](#)-support (dropped for licensing-reasons),
 - an integrates price-search-engine based on a secure back-end-assembly logic directly implementing the price-optimisation/-search into the SQL-Server-Back-End,
 - a hierarchical geo-database supporting structure of the

- price/contract-database,
- a database structure supporting tracing of shareholding-relations of the contracting parties,
- Integration of the aforementioned technologies based upon the Web-Service -Software-Factory.

Conceptual design and development of specific web-applications und Webparts under SharePoint 2007 as well as BizTalk 2006 for NETWORK PEOPLE AG (<http://networkpeople.de>). **since 2007**

Training of optimisation of SQL Server 2000/2005 systems as well regarding the server-design as the query-structure. **since 2006**

Training of .NET 2.0/C# 2.0 incl. interface-programming between Win32/SQL 2000 und .NET 2.0 with special emphasis on new features and performance-optimisation in C# 2.0 und .NET 2.0. **since 2006**

Conceptual design and development of SharePoint-specific database-extension-modules under C# 2.0 incl. interface-programming between Win32/SQL 2000 und .NET 2.0 in both directions (incl. solving the stability problems common to this type of work) for NETWORK PEOPLE AG (<http://networkpeople.de>). **since 2006**

Training of SQL Server 2000/2005 administration as well as programming with special emphasis on security/encryption and fail-safety. **since 2005**

Conceptual design and development of SharePoint- web-applications as well as Webpart-development incl. modification of the internal database-logics via ADO.NET for NETWORK PEOPLE AG (<http://networkpeople.de>). **since 2005**

Conceptual design and Optimisation of high-performance data-processing and graphics-element compilation for credit-card-printing-machines. **2003-2004**

The patents, „[DE 10021282 B4](#)“/„[DE 10021286 B4](#)“ (German), „[EP 1301993](#)“ (European) and „[United States Patent #6,839,003](#)“, resulting from the aforementioned work have been granted within the adjoining time-span without restrictions on our substantial claims. **2000-2007**

Conceptual design and development of an adaption of the compression-algorithm to the structure of noisy, coarse-grid long-term-[ECG \(Electro-Cardio-Gram\)](#)-data. **since 2002**

Electro-cardio-grams are memory-intensive utilising the shipping of tapes or flash-sticks. An Internet-bases data-acquisition-system helps in reducing the total cost of equipment ownership.

- Classification of mathematically und physically relevant literature.
- Conceptual design and development of a transformation allowing to use the aforementioned compression-algorithm.

- Implementation of the signal-processor-support on Intel/AMD based systems.

<p>Operating-Systems:</p> <p>Windows NT 4SP6a (Workstation or. Server) up to Windows 2000.</p>
<p>Development-Environment:</p> <p>Mathematica 4.x, Winword from Version 9 (2000) on, Mathematica-Wavelet-Explorer from Version 1.x on, Visual-Studio 6.</p>

Authoring of a German as well as an International patent, planning as well as contact- and enquiry-treatment by and with respect to the “[Deutsches Patent- und Markenamt](#)” resp. the “[Europäisches Patentamt](#)”.

**since
2000**

The patent on the aforementioned compression-technology was granted without restrictions on our claims.

- Classification of patent-relevant and technically relevant literature.
- Authoring of the German patent-application.
- Filing and Design of a rights-administration-model.
- Clearing out of the reviser’s objections (All objections were referring to the newness have been dropped without mitigation of the claims.
- Authoring of the international patent-application including an extension comprising a method to display and evaluate the compressed data directly, hereby using the patent’s capability to “boil down” the data to its essential information and identify this essence, e.g. by creating hand-like structures in the views of compressed Electro-Cardio-Gram-data with the fingers pointing to the arrhythmic points in time.
- Removal of purely formal shortcomings (Figures’ formats, partitioning of maps, photographic reproduction).

<p>Operating-Systems:</p> <p>Windows NT 4SP6a (Workstation or. Server) up to Windows 2000.</p>
<p>Development-Environment:</p> <p>Mathematica 4.x, Mathematica-Wavelet-Explorer Version 1.x, Visualcafe from Version 3.x on, Cosmo-Player for Netscape from Ver. 4.7 on.</p>

Conceptual design, Installation and programming of a web-based Acquisition-, Compression- und Remote-Query-System on undemanding/low-end hardware of Measurement-Data fit for data-archiving according to the German product liability law, for Clariant Deutschland GmbH, and Infraserv GmbH & Co. Hoechst KG (See www.PlantScope.de, Demo under Alopex.de: Username und Password „demo“).

**since
1999**

Port/Enhancement of Database-Integration from Oracle 8.1.x to MS-SQL

2000/2005 as well as MySQL Ver. 5 to 6.0.9.

The system acquires and administrates measurement-data in conformance with the German Product Liability Act, i.e. for 10 years (normal case) to 30 years (hazardous incident). State of the art measurement-data-acquisition comprises, per plant, 500-1000 sensor-probes, which deliver a measurement-value any 1-2 seconds resulting in 250-500 MB per sensor and year being held online on a web-retrievable basis.

Without the compression system, querying sensors, which embrace a time span of year (daily practice), would fully load the system at only about 40 sensor-queries per day:

With activated compression the system stems about 100000 sensor-queries per day.

Without the compression an expensive Data-Warehouse-Server would to be required.

With activated compression a usual Laptop will suffice [Necessary are about. 18GB/year for 700 sensors with 15s sampling-rate and an average of 1% approximation-error. Nevertheless, for safeguarding against failure, we recommend [RAiD](#)-Systems with [RAiD](#)-Levels 1(0), 5(0) or 6(0) resp. 7].

The system handles all necessary administration-tasks by utilising a standard Web-Browser (IE from Ver. 5.5 on with Java-Option installed, Netscape from Ver. 4.7 on, Mozilla from Ver. 1.3 on, Firefox from Vers. 1.8. on, as well as Java 1.4 or above installed).

Tasks performed in order to fulfil any and all scientific as well as technical standards:

- Classification of mathematically und physically relevant literature.
- Conceptual design and development of a web-based measurement-data- analysis and integration with an Online- Database (Oracle from Ver. 8.1.5. on SQL-Server from Ver. 7/2000 on, MySQL from Ver. 5 on.).
- Definition, programming and design of an update-model of the compressed database-tables as well as the inter-process-communication-interfaces (Acquisition-Server, Database, Web-Server, Java-Applet). Java-Implementation helped and instructed by a companion.
- Development, proof of safety and stability and test (later patent-application) of the compression-algorithm [The average All-Database-Compression-factor lies at about 100 (average compression-error at 2% with respect to the l_2 -measure), excluding 10 Sensors with an extraordinarily low Signal-to-Noise-ratio of about 1:2 (looking like white noise by visual inspection).].
- Implementation of the compression-algorithm on two independent platforms (o the one hand Mathematica 4.x, the other hand Visual C++6/7 as well as Intel C++ 5/6) along with a cross-consistency-test.
- Two months long term testing-phase With 1000 to 5000 data-

acquisitions as well as 50000 to 100000 randomised data-query-actions per day.

- [TÜV](#)-Certification.
- More than 8.6 years of data-loss-free operation-time.

<p>Operating-Systems:</p> <p>Windows NT 4SP6a (Workstation or. Server) up to Windows 2008: customer's choice.</p>
<p>Further Server-Components:</p> <p>SQL-Server from Ver. 7/2000 on (needs Windows Server), Oracle from 8.1.5., MySQL Ver. 5.0.20/6.0.9., Apache from Version 1.3 on.</p>
<p>Clients:</p> <p>IE from Vers. 5.5 on with Java-Option installed (not shipped with IE, to be downloaded from java.com/download), Netscape from Ver. 4.7, Mozilla from Vers. 1.3 on, Firefox from Vers. 1.8. on (Opera was not excessively tested.).</p>
<p>Development-Environment:</p> <p>Mathematica 4.x, Mathematica-Wavelet-Explorer Version 1., Visualcafe from Version 3.x on, Microsoft Visual Studio, Microsoft Visual C++ 6/7 on, Intel C++ 5/6, Microsoft Visual SourceSafe 6.</p>

Installation and administration of a Windows NT 4 domain/sub-domain structure (2 Main-Domain-Servers, 4 Sub-Domains) **1997-1999**

Migration to Windows NT 4 (2 Servers, 15 Clients) **1996-1999**

Hardware-Installation and administration of a departmental LAN: **1994-1999**

Installation and administration of a TCP/IP-LAN: Sun (BSD-Unix), Silicon Graphics (System V-Unix)

Installation and administration of a Windows 3.1 LAN (9 Peers)

Migration (from Windows for Workgroups 3.11), Installation and administration of a Windows NT 3.51 LAN (2 Servers, 10 Clients)

Adaptation of drivers and remote printer-spoolers under Sinix **1992**

Creation of an interactive teaching-programme for apprentices on numerical Integration **1989-1990**

Occupational IT-Organisation and Programming tasks as free-lancer for diverse **since**

Activity	companies free-lancer IT-Trainer	1992
	Photographical und data processing-conditioning at the Repro-Studio Leist in Groß-Zimmern (Germany)	1993-1994
	Delivery of goods for “Hermes” in Dieburg (Germany) on behalf of Otto-Shipping in Hamburg (Germany)	1990
Promotion	External Promotion at the “Deutsches Kunststoff-Institute”, Topic: "Wavelet- und Δ -compressed Hamiltonoperators."	since 1995
Academic Studies	Mathematics at “Technische Hochschule Darmstadt” now “Technische Universität Darmstadt” (i.e. Technical University Darmstadt)	1988-1997
	Physics at “ Technische Hochschule Darmstadt ” now “ Technische Universität Darmstadt ” (i.e. Technical University Darmstadt)	1988-1994
	Graduation: Diploma in 12 Subject-Semesters with <u>Grade A</u> <u>Topic</u> " <u>Numerical Desmearing of small-angle-x-ray-scattering photographs</u> ".	August 1994
Military Service	Communications and Medical specialist at the 3.rd army corps.	7/1/1987-9/30/1988
Education	Internship at Schneller 's in Kent/Ohio.	autumn 1989
	Max-Planck-High School (in Groß-Umstadt/Germany)	1980-1987
	Graduation: University-Entrance Diploma with Grade A- = 837/900 points.	
Languages	Fluent in spoken and written form as well as a language of instruction (whole courses):	English
	School knowledge:	Latin

Additional skills

Personal interests Ancient history, medicine (neurology and biochemistry), epistemology.

Recent achievements Expiration of all opposition-periods regarding my patents.

Darmstadt, 4/27/2009.
